010379690

WPI Acc No: 1995-281004/ 199537

Surface modification of moulded resins - by contacting surface of polymers with aq. soln. of aluminium cpds. or boron cpds., as scavengers

for liberated fluorine radicals

Patent Assignee: USHIO INC (USHE)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No Kind Date Applicat No Kind Date Week

JP 7179628 A 19950718 JP 93344657 A 19931221 199537 B JP 3211532 B2 20010925 JP 93344657 A 19931221 200162

Priority Applications (No Type Date): JP 93344657 A 19931221

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 7179628 A 7 C08J-007/00

JP 3211532 B2 7 C08J-007/00 Previous Publ. patent JP 7179628

Abstract (Basic): JP 7179628 A

The surface of polymers contg. C-F bonding are modified by contacting with aq. soln. of Al cpds. or B cpds. as scavenger of liberated F radical and irradiating by the emitted light chosen from (1) Xe excimer laser-ray at distance of not greater than 5 mum, (2) Ar-CI excimer laser-ray in not greater than 20 mum, (3) Ar-F excimer laser-ray in not greater than 2,000 mum or (4) UV of low pressure Hg lamp in not greater than 80 mum. The wall power loading of emission bulb is controlled in not less than 0.2 watts/square cm and the light emission part is, pref., cooled at not higher than 250deg.C, with the bulb walls contacting with electrodes at not higher than 300deg.C.

USE - Poly-fluoride resins give improved coating, printing and adhesion.

ADVANTAGE - The process is applied cheaply for high volume treatment.

Dwq.0/8

Derwent Class: A14; A35; E33; E36

International Patent Class (Main): C08J-007/00 International Patent Class (Additional): C08L-027-12